

Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

4

Complete if Known

Application Number	09/690,353
Filing Date	October 16, 2000
First Named Inventor	Collins et al.
Group Art Unit	1619
Examiner Name	D. Jones
Attorney Docket Number	COP1003 07959.105030

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
D.J.	AA	3,981,863		Niswender et al.	9/21/76	
	AB	4,465,775		Houts	8/14/84	
	AC	4,612,302		Szabo et al.	9/16/86	
	AD	4,684,620		Hruby et al.	8/4/87	
	AE	4,853,371		Coy et al.	8/1/89	
	AF	5,739,313		Collins et al.	4/14/98	
	AG	5,877,165		Miura Michiko	3/2/99	
	AH	6,004,533		Collins et al.	12/21/99	
	AI	6,096,290		Collins et al.	8/1/00	
	AJ	4,209,614		Bernstein et al.	6/24/80	
	AK	4,279,859		Gutcho et al.	7/21/81	
	AL	5,428,023		Russell-Jones et al.	6/27/95	
	AM	3,936,440		Nath	2/3/76	
	AN	4,283,342		Yolles	8/81	
	AO	4,301,140		Frank et al.	11/81	
	AP	5,308,606		Wilson et al.	5/3/94	
	AQ	5,405,839		Toraya et al.	4/11/95	
	AR	5,449,720		Russell-Jones et al.	9/12/95	
	AS	5,548,064		Russell-Jones et al.	8/20/96	
	AT	5,574,018		Habberfield et al.	11/12/96	
	AU	5,589,463		Russell-Jones et al.	12/31/96	
D.J.	AV	5,559,796		Schinazi et al. Edem et al	2/4/97 9/24/96	
	AW	5,608,060		Axworthy et al.	3/4/97	
	AX	5,807,832		Russell-Jones et al.	9/15/98	
	AY	5,840,880		Morgan et al.	11/24/98	
	AZ	5,869,465		Morgan et al.	2/9/99	
D.J.	AAA	5,869,466		Russell-Jones et al.	2/9/99	

Examiner
Signature

D. Jones

Date
Considered

5/28/02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

2

of

4

Complete if Known

Application Number	09/690,353
Filing Date	October 16, 2000
First Named Inventor	Collins et al.
Group Art Unit	1619
Examiner Name	D. Jones
Attorney Docket Number	COP1003 07959.105030

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
BA	BA	6,074,625		Hawthorne et al.		

FOREIGN PATENT DOCUMENTS

Examine r Initials *	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number	Kind Code ² (if known)				
BA	BB	WO	00/45857			08/10/00		
	BC	WO	98/08859			3/5/98		
	BD	WO	00/62808			10/26/00		
	BE	EP	0 165 716			12/27/85		
	BF	WO	97/18231			05/22/97		
	BG	WO	98/08859			3/5/98		
	BH	WO	89/01475			2/23/89		
	BI	WO	92/13571			08/20/92		
	BJ	WO	94/27613			12/8/94		
	BK	WO	94/27641			12/8/94		
	BL	WO	95/27723			10/19/95		
	BM	WO	96/31243			10/10/96		
	BN	WO	97/14711			04/24/97		
	BO	WO	97/33627			09/18/97		
	BP	WO	99/65930			12/23/99		
	BQ	EP	0 005 834			12/12/79		
	BR	EP	0 069450			1/12/83		

Examiner
Signature

D. Jones


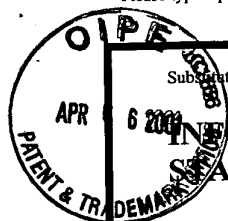
Date
Considered

10/20/02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet **3** of **4**

Complete if Known

Application Number	09/690,353
Filing Date	October 16, 2000
First Named Inventor	Collins <i>et al.</i>
Group Art Unit	1619
Examiner Name	D. Jones
Attorney Docket Number	COP1003 07959.105030

FOREIGN PATENT DOCUMENTS

Examine r Initials *	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number	Kind Code ² (if known)				
DA	CA	JP	58-046027			3/1783		
	CB	AU	04490099A1					
DA	CC	WO	00/74721			12/14/00		
DA	CD	WO	99/65930			12/23/99		
DA	CE	WO	001/45857			10/08/00		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examine r Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
DA	CF	ALAM <i>et al.</i> , Strahlentherapie und Onkologie; 165 (1989), 121-123	
	CG	AMAGASAKI <i>et al.</i> , Blood, 76:7, 1380-1386, (1990).	
	CH	ANTON <i>et al.</i> , The J. of Biol. Chem. 255:10 of May 25, pp. 4507-4510 (1980).	
	CI	BEGLY <i>et al.</i> , J. Cell Physiol., 156, 43-47 (1993).	
	CJ	BLOMQUIST <i>et al.</i> , Experientia, 25, 294-296 (1969).	
	CK	Clinical Experience of Boron-Neutron Capture Therapy for Gliomas-A Comparison with Conventional Chemo-Immuno-Radiotherapy (undated)	
	CL	COOPER <i>et al.</i> , Nature, 191, 393-395 (1961).	
	CM	COLLINS <i>et al.</i> , Mayo Clinic Proc., 74, 687-691 (1999).	
	CN	COLLINS <i>et al.</i> , J. Nucl. Med., 38:5, 717-723 (1997).	
	CO	GABEL, Tumor-Seeking Compounds for Born Neutron Capture Therapy: Syntesis nd Biodistribubtion, Clinical Aspects of Neutron Capture Therapy (undated) (Fairchild ed.)	
DA	CP	FAIRCHILD <i>et al.</i> , International Journal of Radiation Oncology, Biology, Physics, Vol. 11, Number 1- 4 (1985) Pages 1-882.	
	CQ	FINKLER <i>et al.</i> , Arch. Biochem. Biophys., 120, 79-85 (1967)	

Examiner Signature		Date Considered	5/28/02
-----------------------	---	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	09/690,353
Filing Date	October 16, 2000
First Named Inventor	Collins <i>et al.</i>
Group Art Unit	1619
Examiner Name	D. Jones
Attorney Docket Number	COP1003 07959.105030

4 of 4

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examine r Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
<input checked="" type="checkbox"/>	CR	FLODTH <i>et al.</i> , <u>Int. J. Cancer</u> : 3, 694-699 (1968).	
<input checked="" type="checkbox"/>	CS	GABEL <i>et al.</i> , <u>Radiation Research</u> , Vol. 111, 14-25, 1987	
<input checked="" type="checkbox"/>	CT	HALL <i>et al.</i>, <u>J. Cell Physiol.</u>, 133, 187-191 (1987).	
<input checked="" type="checkbox"/>	CU	HATANAKA, <u>Journal of Neurology</u> , Vol. 209, 81-94 (1975)	
<input checked="" type="checkbox"/>	CV	HAWTHORNE <i>et al.</i> , <u>Journal of Medical Chemistry</u> , Vol. 15, no. 5, 1972	
<input checked="" type="checkbox"/>	CW	HOGENKAMP <i>et al.</i> , <u>Biochemistry</u> , 13:13, 2736-2739 (1974).	
<input checked="" type="checkbox"/>	CX	HOGENKAMP, <i>et al.</i> <u>Nucl. Med. and Biol.</u> , 27, 89-92 (2000).	
<input checked="" type="checkbox"/>	CY	ICHIHASHI, <i>et al.</i> , <u>The Journal of Investigative Dermatology</u> , vol. 78, no. 3 (1982)	
<input checked="" type="checkbox"/>	CZ	KULH, <i>et al.</i> , <u>Chemical and Biological Studies on Boronated Tetraphenyl Porphyrins</u> , Boron Chemistry	
<input checked="" type="checkbox"/>	CCA	The Lancet, Treatment of Malignant Melanoma by Single Thermal Neutron Capture Therapy with Melanoma-Seeking B-Compound, p. 388, August 12, 1989 (Mishima)	
<input checked="" type="checkbox"/>	CCB	LASTER <i>et al.</i> , <u>Strahlentherapie und Onkologie</u> , 165 (1989), 203-205	
<input checked="" type="checkbox"/>	CCC	LINDEMANS, <i>et al.</i> , <u>Experimental Cell Research</u> , 184:2, Oct. 1989.	
<input checked="" type="checkbox"/>	CCD	MISHIMA <i>et al.</i> , <u>Strahlentherapie Und Onkologie</u> , 165 (1989) 251-254	
<input checked="" type="checkbox"/>	CCE	NAKAGAWA <i>et al.</i> , <u>Chem. Pharm. Bull.</u> , July 18, 1975, UDC 547.869.2.04; 547. 244.04	
<input checked="" type="checkbox"/>	CCF	RAPPAZZO, <i>et al.</i> , <u>J. Clin. Invest.</u> , 51, 1915-1918 (July 1972).	

Examiner
Signature

[Signature]

Date
Considered

5/28/02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box

PTO/SB/08A (08-00)
Approved for use through 10/31/2002, OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known Application Number: 09/690,353 Filing Date: October 16, 2000 First Named Inventor: Collins et al. Group Art Unit: 1619 Examiner Name: <i>D Jones</i> Attorney Docket Number: 07959.105030	
Sheet	1	of	2

RECEIVED
 FEB 08 2002
 PCH CENTER 1600/2900

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
<i>TS</i>	AA	6,083,926		Morgan et al.	07-04-2000	
	AB	6,150,341		Russell-Jones, et al.	11-21-2000	
	AC	6,211,355		Collins et al.	04-03-2001	
	AD	6,262,253		Russell-Jones, et al.	07-17-2001	
	AE	6,315,978		Grissom et al.	11-13-01	
	AF	U.S.S.N. 09/690,197		Collins et al.	filed 10-16-2000	
	AG	U.S.S.N. 09/690,198		Collins, et al.	filed 10-16-2000	
	AH	U.S.S.N. 09/626,213		Collins et al.,	filed 10-16-2001	
	AI	U.S.S.N. 09/873,142		Collins et al.	filed 5-31-2001	
	AJ	U.S.S.N. 09/873,164		Collins et al.	filed 5-31-2001	
<i>AK</i>	AK	U.S.S.N. 10/028,857		Collins et al.	filed 10-25-2001	
<i>AL</i>	AL	U.S.S.N. 10/027,593		Collins et al.	filed 10-25-2001	

Class/ Subclass
 ↓

FOREIGN PATENT DOCUMENTS							
Examiner Initials *	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number	Kind Code ² (if known)			
<i>BA</i>	BA	WO	01/30967		Grissom et al.	05-03-2001	

Class/ Subclass
 ↓

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Signature	<i>D Jones</i>	Date Considered	<i>5/24/02</i>
--------------------	----------------	-----------------	----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/690,353
		Filing Date	October 16, 2000
		First Named Inventor	Collins <i>et al.</i>
		Group Art Unit	1619
		Examiner Name	D. Jones
Attorney Docket Number	07959.105030		
Sheet	2	of	2

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
WJ	CA	Wilbur, et al., "Biotin Reagents for Antibody Pretargeting. 4. Selection of Biotin Conjugates for in Vivo Application Based on Their Dissociation Rate from Avidin and Streptavidin." <i>Bioconjugate Chem.</i> , 11(4), 569-583 (June 29, 2000).	
XG	CB	Wilbur, et al., "Evaluation of Biotin-Dye Conjugates for Use in an HPLC Assay to Assess Relative Binding of Biotin Derivatives with Avidin and Streptavidin." <i>Bioconjugate Chem.</i> , 11(4), 584-598 (June 29, 2000).	

2288713

Examiner Signature	<i>D. Jones</i>	Date Considered	5/24/02
-----------------------	-----------------	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.